

**FACT SHEET ON GOVERNMENT-WIDE
PAPER RESEARCH**

Over the past several years, the National Archives and Records Service has been modestly financing certain research by the Bureau of Standards on the permanence of paper. The Bureau has prepared six related reports, as follows:

1. The Yellowing of Paper (Report No. 9659, December 15, 1967)
2. The Effect of Laboratory Aging on the Reactivity of Papers With Blue Terazosium (Report No. 9675, January 29, 1968)
3. The Reaction of Alum With Paper Pulps (Report No. 9847, May 24, 1968)
4. Differential Thermal Analysis of Some Papers and Carbohydrate Materials (Report No. 9939, November 1, 1968)
5. The Struss-Strain Behavior of Laboratory and Naturally Aged Papers (Report No. 9940, November 1, 1968)
6. Evaluation of the Stability of Record Papers (Report No. 9941, November 1, 1968)

The Bureau of Standards has made a long-range proposal for the in-depth research and analysis necessary to know and evaluate certain fundamental facts about writing paper, envelopes, and other paper found in archives. As the National Archives alone cannot afford to finance the research, it is coordinating support from other agencies and from non-Federal sources.

In the balance of F.Y. 1969 the Bureau's objectives are:

1. To develop experimental pulps that will be used to make several kinds of paper to be tested by the Bureau;

On file GSA release instructions apply.

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2. To complete and report upon a study of the differential thermal analysis of several pulps and modified celluloses (differential thermal analysis shows promise as a quick method for evaluating the stability of paper);

3. To set up several new methods for evaluating the properties of aged paper (traditionally, change in folding endurance has been the criterion to measure aging, but that test does not supply information on chemical processes); and

4. To select aging apparatus that will be flexible enough to satisfy all aging conditions, and also be convenient to maintain (present apparatus is flexible and precise, but difficult to maintain; it will be used until other equipment is obtained).

Specific objectives for subsequent years will be developed and evaluated in terms of the progress of the project and its long-range objectives.

November 1968

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Dr. James B. Rhoads
Archivist of the United States
National Archives and Records Service
Washington, D.C. 20408

Dear Dr. Rhoads:

For Fiscal Year 1969 we will provide funds in the amount of
\$ _____ to help finance paper research being coordinated
by the National Archives and Records Service and performed by
the National Bureau of Standards.

The bill for this charge should cite appropriation no. _____
and be addressed to:

(signature)

(Name)

(title)

(agency)

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